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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,115	01/14/2002	Mark W. Kroll	A02P1004	9041
75	590 06/24/2004		EXAM	INER
PACESETTER, INC. 15900 Valley View Court			MANUEL, GEORGE C	
Sylmar, CA 9	1392-9221		ART UNIT	PAPER NUMBER
•			3762	
			DATE MAIL ED: 06/24/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\mathcal{A}$
	Application No.	Applicant(s)
Office Antique Commence	10/047,115	KROLL, MARK W.
Office Action Summary	Examiner	Art Unit
	George Manuel	3762
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	rith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repleted in the provided for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statuly and the provided by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of this will apply and will expire SIX (6) MOI te, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
	is action is non-final.	
3) Since this application is in condition for allowa	ance except for formal mat	ters, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-73 is/are pending in the application	n.	•
4a) Of the above claim(s) is/are withdra	awn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-15,18,21,24,27-63 and 65-69</u> is/ar	e rejected.	
7)⊠ Claim(s) <u>16,17,19,20,22,23,25,26,64 and 70</u> -	73 is/are objected to.	
8) Claim(s) are subject to restriction and/	or election requirement.	
Application Papers		•
9)☐ The specification is objected to by the Examin	er.	
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to	by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct	ction is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer	nts have been received.	
3. Copies of the certified copies of the prior		
application from the International Burea	•	Treesived in this Hadional Stage
* See the attached detailed Office action for a lis	, , , ,	received.
		•
Attachment(s)		
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>1/14/02</u>.</li> </ol>	6) Other:	Informal Patent Application (PTO-152)

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#### **DETAILED ACTION**

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### Claim Rejections - 35 USC § 112

Claims 5, 6 and 41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 5 and 6, the intracardiac electrogram signal lacks antecedent basis.

Regarding claim 41, the switch lacks antecedent basis.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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Claims 1-5, 7-14, 27-31, 33, 34, 40-46, 48, 49, 58-61, 63 and 65-68 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Collins '326.

Collins discloses detecting myocardial ischemia based on the ST-segment in the electrogram signal wherein, if the ST-segment is abnormal, the microprocessor may use the total duration of deviation persistence as an index of ischemia. Further, Atrial Sensing 25 and Ventricular Sensing 35 provide means for determining a sensor indicated heart rate and Atrial Pacing 24 and Ventricular Pacing 34 provide pacing at the sensor indicated heart rate.

Claims 1, 15, 18, 21, 24, 27-39, 44-46, 48-61, 63 and 65-69 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Alferness '768.

Alferness discloses ischemia data includes ST segment deviation data and MUX 64 provides a "switch" for connecting sensing leads 34 and 36.

Claims 1, 6, 27, 32, 44, 47, 58 and 62 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Stadler et al '493.

Stadler et al disclose in FIG. 1D is using defibrillation electrodes and the cardiodefibrilation housing for the electrode array. Further, Stadler et al are replete with discussion related to detecting myocardial ischemia based on a change in the electrogram, see for example, in step S236, each ischemia parameter is compared to an ST ischemia parameter threshold previously programmed into a register in step S235.

### Allowable Subject Matter

Claims 16, 17, 19, 20, 22, 23, 25, 26, 64 and 70-73 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten

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in independent form including all of the limitations of the base claim and any intervening claims.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (703) 308-2118.

George Manuel rimary Examiner Art Unit: 3762

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